

The Life and Times of IsoMax

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Objective

- Embedded Programming using “IsoStructure”
 - http://www.camelforth.com/e107_files/downloads/newmicros/product_manual/Isomax0.pdf
- Essentially a state machine run from a periodic interrupt
- “ServoPod” adds a servo control function from a second periodic interrupt

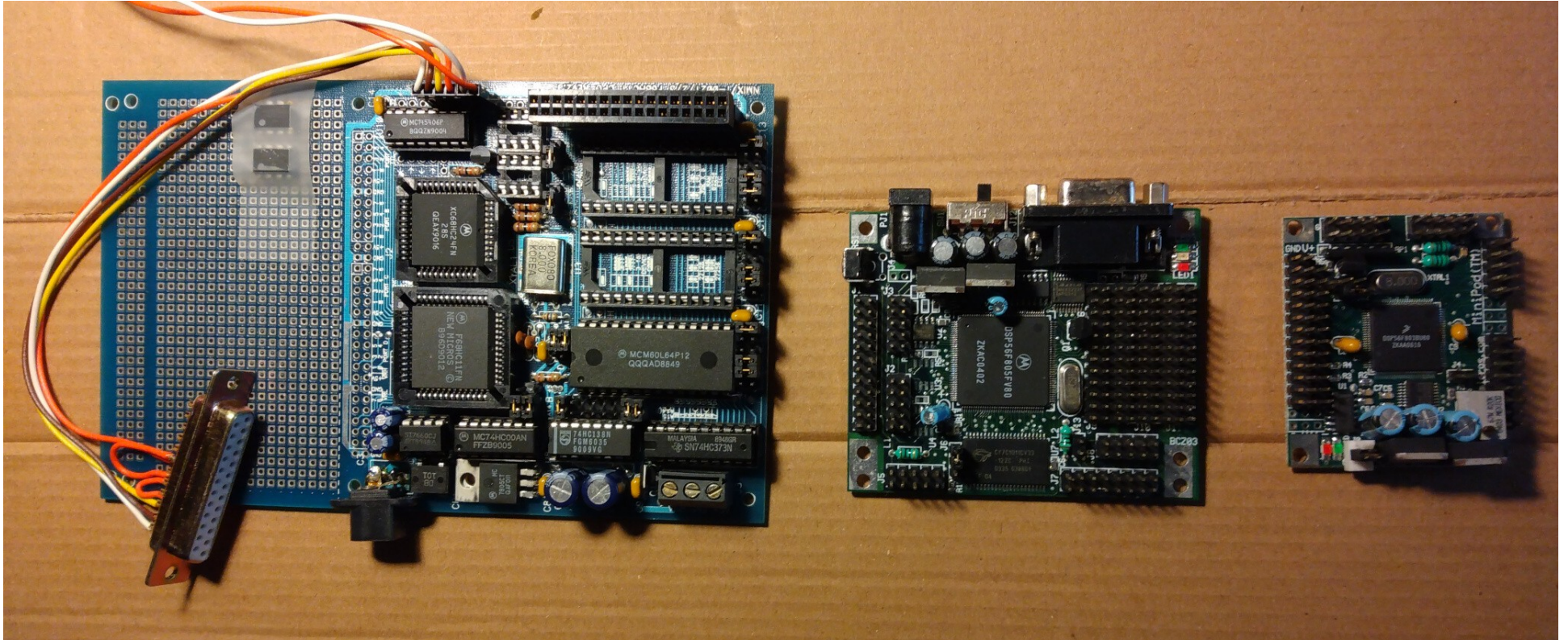
http://www.camelforth.com/e107_files/downloads/newmicros/product_manual/lsomax0.pdf

```
STATE-MACHINE THERMOSTAT_A
  ON-MACHINE THERMOSTAT_A
    APPEND-STATE WAIT_ON_LOW_TEMP
    APPEND-STATE WAIT_ON_HIGH_TEMP
```

```
IN-STATE WAIT_ON_LOW_TEMP
  CONDITION TOO_COLD?
  CAUSES HEATER_ON
  THEN-STATE WAIT_ON_HIGH_TEMP
  TO-HAPPEN
```

```
IN-STATE WAIT_ON_HIGH_TEMP
  CONDITION TOO_WARM?
  CAUSES HEATER_OFF
  THEN-STATE WAIT_ON_LOW_TEMP
  TO-HAPPEN
```

NMIX-0021, IsoPod X, MiniPod



Cast of Characters

- Randy Dumse, New Micros Inc. –
 - Single Board Computers
 - MaxForth for various CPUs
 - State machine concept
- Rick VanNorman, ca. 1996-1997–
 - Design of IsoMax
 - First implementation of IsoMax, in MaxForth (68332)

Cast of Characters, cont'd.

- Rob Chapman, ca. June 1997 –
 - MaxForth in C, on MCore MMC2107 MCU.
- Brad Rodriguez
 - 2002-2003 – IsoMax ported to DSP56803 MCU (IsoPod) using MaxForth in C
 - 2006-2007 – IsoMax 2 on DSP56F8365 MCU (Super Pluga Pod), MaxForth in assembler

The Last Release

- First release: IsoMax v0.3, 2 Oct 2002
- Final release: v0.94 & v0.95, 5 Jul 2007
- IsoMax 2 – beta test, never released, ca. 2013
- New Micros Inc. closes – 2014 ?

Questions?

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